

# A5 Neo Flying Probe Test System

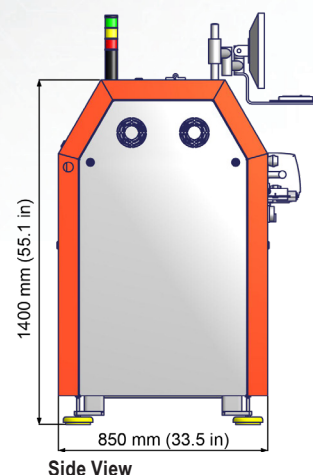
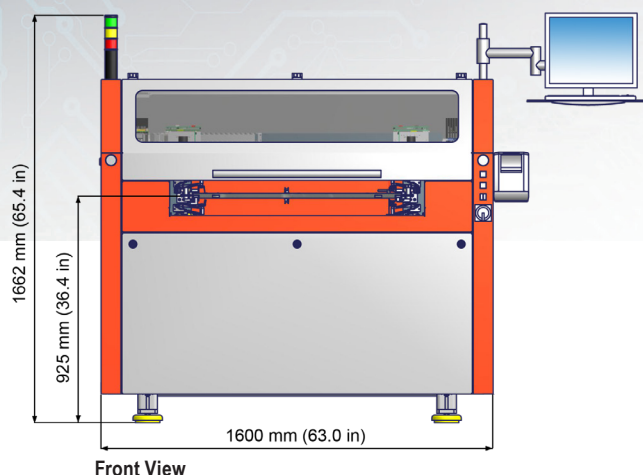
## For Rigid and Flexible Boards



- ▲ 8 Test Heads
- ▲ Pneumatic Tension Shuttle for Flex and Inner layer handling
- ▲ Fast 300 mA Kelvin Testing

# A5 Neo Technical Specifications

## Flying Probe Test System



### Mechanics

Basic unit with 8 probes (4 top, 4 bottom)  
Universal shuttle system with clamp and stretch mode for testing flexible and rigid boards. Pneumatic clamping function controlled by foot switch.

Max. board size (X x Y)	640 mm x 495 mm / 25.2" x 19.5"
Min. board size (X x Y)	10 mm x 10 mm / 0.4" x 0.4"
Test area (X x Y)	610 mm x 460 mm / 24.0" x 18.1"
Board thickness	up to 8 mm / 0.32"

Smallest pad	50 $\mu\text{m}$ / 2.0 mil*
Smallest pitch	100 $\mu\text{m}$ / 4.0 mil*
Resolution measurement system	$\pm 0.1 \mu\text{m}$ / $\pm 0.004 \text{ mil}$
Repeatable accuracy	$\pm 5 \mu\text{m}$ / $\pm 0.2 \text{ mil}$

*Soft touch probes	5 g to 10 g
or Standard probes	20 g to 100 g

### Electronics

Continuity test	1 $\Omega$ to 10 k $\Omega$
Isolation test	up to 25 M $\Omega$ (FM) up to 100 G $\Omega$ (ohmic) MicroShort Detection®
Test voltage	100 mV to 1000 V

### Camera System

4 cameras for fast optical scanning of top and bottom side.  
Resolution 13  $\mu\text{m}$ /pixel

### Options

- 4-wire measurement with max. 300 mA test current
 

0 $\Omega$ to 1 k $\Omega$	$\pm 2 \%$ , min. $\pm 25 \mu\Omega$
with Kelvin probes	0.3 g to 2.5 g
Smallest pad	100 $\mu\text{m}$ / 4.0 mil*
Smallest pitch	150 $\mu\text{m}$ / 6.0 mil*

 \* special setup
- Embedded components test
 

R 0 $\Omega$ to 1 M $\Omega$	$\pm 1 \%$ , min. $\pm 0.5 \Omega$
1 M $\Omega$ to 200 M $\Omega$	$\pm 3 \%$
C 0 F to 100 $\mu\text{F}$	$\pm 2 \%$ , min. $\pm 30 \text{ fF}$
L 0 H to 10 mH	$\pm 5 \%$ , min. $\pm 0.25 \mu\text{H}$
Diode / Varistor	
$U_F, U_R, U_{BR}$	0 V to 12.5 V
- LaTest® open detection
 

with LaTest® probes	1 g to 10 g
High current	1.4 A (1 kHz)

- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support

<b>Data input format</b>	IPC-D-356A
<b>Network connection</b>	Ethernet, TCP / IP
<b>Power supply</b>	230 V, 50 Hz (115 V, 60 Hz), 900 VA
<b>Compressed air</b>	8 bar / 115 psi, filtered
<b>Temperature</b>	18 $^{\circ}\text{C}$ to 27 $^{\circ}\text{C}$
<b>Relative humidity</b>	40% to 60%
<b>Machine weight</b>	700 kg

All information subject to change without notice!  
October 2018